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# NOTICE OF ALLOWANCE AND FEE(S) DUE

24504

7590

10/07/2004

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW STE 1750 ATLANTA, GA 30339-5948 EXAMINER
HUYNH, ANDY

PAPER NUMBER

ART UNIT

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DATE MAILED: 10/07/2004

APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/696.430	10/29/2003	Min-Hwa Chi	TS00-680B	6774

TITLE OF INVENTION: GATE-CONTROLLED, NEGATIVE RESISTANCE DIODE DEVICE USING BAND-TO-BAND TUNNELING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	01/07/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000			
appropriate. All further cor indicated unless corrected by	respondence including the location or directed otherwise	smitting the ISSU Patent, advance or in Block 1, by (a)	E FEE and PUE ders and notifical ) specifying a ne	BLICATION FEE (if requirements of maintenance fees we correspondence address	nired). Blocks 1 through 5 s will be mailed to the current and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for	
maintenance fee notification	IS.  E ADDRESS (Note: Use Block 1 for	any change of address)		Note: A certificate o	f mailing can only be used f	or domestic mailings of the	
				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.			
			V IID		J		
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LI 100 GALLERIA PARKWAY, NW STE 1750 ATLANTA, GA 30339-5948			CI, LLF	I hereby certify that the States Postal Service addressed to the Matransmitted to the US	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with a States Postal Service with sufficient postage for first class mail in an addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO (703) 746-4000, on the date indicated below		
ATLANTA, OA 30	JJJ7-JJ7 <del>4</del> 0				· · · · · · · · · · · · · · · · · · ·	(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	]	FIRST NAMED IN	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,430	10/29/2003		Min-Hwa	Chi	TS00-680B	6774	
TITLE OF INVENTION; G.							
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nonprovisional	NO	\$1370	•	\$300	<b>\$1670</b>	01/07/2005	
EXAM	INER	ART UN	IT	CLASS-SUBCLASS	]		
HUYNH	, ANDY	2818		438-186000			
1. Change of correspondence CFR 1.363).  Change of correspond				on the patent front page, l of up to 3 registered pate alternatively.	•		
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (pi	rint or type)			
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will appear a substitute for:	on the patent. If an assig filing an assignment.	nee is identified below, the o	locument has been filed for	
(A) NAME OF ASSIGN			B) RESIDENCE: (CITY and STATE OR COUNTRY)				
Please check the appropriate	assignee category or catego	ries (will not be pri	inted on the pater	nt): 🗖 Individual 🗖 G	Corporation or other private gr	oup entity Government	
4a. The following fee(s) are	enclosed:	4b	. Payment of Fee	(s):			
☐ Issue Fee			A check in the amount of the fee(s) is enclosed.				
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies		The Director	The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to posit Account Number (enclose an extra copy of this form).				
5. Change in Entity Status	(from status indicated above					,	
••	MALL ENTITY status. See				ALL ENTITY status. See 37 C		
The Director of the USPTO NOTE: The Issue Fee and Printerest as shown by the reco	is requested to apply the Issu ublication Fee (if required) words of the United States Pate	te Fee and Publicate vill not be accepted and Trademark	tion Fee (if any) of I from anyone oth Office.	or to re-apply any previous ner than the applicant; a re	sly paid issue fee to the applic gistered attorney or agent; or t	ation identified above. he assignee or other party in	
Authorized Signature				Date		<del></del>	
Typed or printed name				Registratio	n No		
This collection of informatic an application. Confidentiali submitting the completed ar	on is required by 37 CFR 1.3 ty is governed by 35 U.S.C.	11. The informatio 122 and 37 CFR O. Time will vary	n is required to o 1.14. This collect depending upon	btain or retain a benefit by ion is estimated to take 12 the individual case. Any	the public which is to file (an minutes to complete, includitionments on the amount of ti	d by the USPTO to process) ng gathering, preparing, and me you require to complete	

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			HUYNH, ANDY		
STE 1750	PARKWAY, NW		ART UNIT	PAPER NUMBER	
ATLANTA, GA	. 30339-5948		2818		
			DATE MAILED: 10/07/200	4	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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24504 75	590 10/07/2004		EXAM	INER
	DEN, HORSTEMEYE	HUYNH	HUYNH, ANDY	
100 GALLERIA P. STE 1750	ARKWAY, NW		ART UNIT	PAPER NUMBER
ATLANTA, GA 30	0339-5948		2818	

DATE MAILED: 10/07/2004

#### Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

\$685 NO

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))

by a small entity (Sec. 1.2/(a))	\$00 <i>5</i> .00
By other than a small entity	\$1,370.00
(b) Issue fee for issuing a design patent:	
By a small entity (Sec. 1.27(a))	\$245.00
By other than a small entity	\$490.00
(c) Issue fee for issuing a plant patent:	
By a small entity (Sec. 1.27(a))	\$330.00

By other than a small entity......\$660.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.